

Contents

Marine Geology Volume 153, 1999

Special Issue: Fifth Decade of Mediterranean Paleoclimate and Sapropel Studies. Edited by E.J. Rohling.

Oblitaties	
Colette Vergnaud-Grazzini	
C. Pierre and C. Pujol	3
Robert Benjamin Kidd, 1949–1996	
A. Cramp and M. Collins	4
Editorial	•
Neogene sapropels in the Mediterranean: a review	
A. Cramp and G. O'Sullivan	1
Mediterranean functioning and sapropel formation: respective influences of climate and hydrological changes in	
the Atlantic and the Mediterranean	
JP. Béthoux and C. Pierre	29
The oxygen and carbon isotope distribution in the Mediterranean water masses	
C. Pierre	41
Holocene Climate Optimum and Last Glacial Maximum in the Mediterranean: the marine oxygen isotope record	
E.J. Rohling and S. De Rijk	57
Review of recent advances in the interpretation of eastern Mediterranean sapropel S1 from geochemical evidence	
J. Thomson, D. Mercone, G.J. De Lange and P.J.M. Van Santvoort	77
Benthic foraminiferal successions across Late Quaternary Mediterranean sapropels	
F.J. Jorissen	91
Diagenetic magnetic enhancement of sapropels from the eastern Mediterranean Sea	
A.P. Roberts, J.S. Stoner and C. Richter	103
Organic-rich layers in the Metochia section (Gavdos, Greece): evidence for a single mechanism of sapropel	
formation during the past 10 My	
S.J. Schenau, A. Antonarakou, F.J. Hilgen, L.J. Lourens, I.A. Nijenhuis, C.H. van der Weijden and W.J. Zachari-	
asse	117
Messinian pre-evaporite sapropels and precession-induced oscillations in western Mediterranean climate	
F.J. Sierro, J.A. Flores, I. Zamarreño, A. Vázquez, R. Utrilla, G. Francés, F.J. Hilgen and W. Krijgsman	137
Late Neogene evolution of the Taza-Guercif Basin (Rifian Corridor, Morocco) and implications for the Messinian	
salinity crisis	
W. Krijgsman, C.G. Langereis, W.J. Zachariasse, M. Boccaletti, G. Moratti, R. Gelati, S. Iaccarino, G. Papani	
and G. Villa	147
Cyclic variations in the chemical composition of eastern Mediterranean Pliocene sediments: a key for understand-	
ing sapropel formation	
R. Wehausen and HJ. Brumsack	161

Origin and transformation of organic matter in Pliocene–Pleistocene Mediterranean sapropels: organic geochemical evidence reviewed	
I. Bouloubassi, J. Rullkötter and P.A. Meyers	177
Modes of sapropel formation in the eastern Mediterranean: some constraints based on pyrite properties	
H.F. Passier, J.J. Middelburg, G.J. de Lange and M.E. Böttcher	199
A synthetic pollen record of the eastern Mediterranean sapropels of the last 1 Ma: implications for the time-scale and formation of sapropels	
M. Rossignol-Strick and M. Paterne	221
Mediterranean planktonic foraminiferal faunas during the last glacial cycle	
A. Hayes, E.J. Rohling, S. De Rijk, D. Kroon and W.J. Zachariasse	239
Foraminiferal ecozones, a high resolution proxy for the late Quaternary biochronology in the central Mediterranean	
Sea	
L. Capotondi, A. Maria Borsetti and C. Morigi	253
Oscillating Quaternary water levels of the Marmara Sea and vigorous outflow into the Aegean Sea from the	
Marmara Sea-Black Sea drainage corridor	
A.E. Aksu, R.N. Hiscott and D. Yaşar	275
Organic geochemical and palynological evidence for terrigenous origin of the organic matter in Aegean Sea sapropel S1	
A.E. Aksu, T. Abrajano, P.J. Mudie and D. Yaşar	303
Deposition of sapropel S1 sediments in oxic pelagic and anoxic brine environments in the eastern Mediterranean: differences in diagenesis and preservation	
A. Rutten, G.J. de Lange, A. Hayes, E.J. Rohling, A.F.M. de Jong and K. van der Borg	319
Eastern Mediterranean sapropel S1 interruption: an expression of the onset of climatic deterioration around 7 ka BP	
S. De Rijk, A. Hayes and E.J. Rohling	337
Author Index	345
AUDIO DIGITAL CONTRACTOR OF THE CONTRACTOR OF TH	100

